



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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August 18, 2000

TO: Minerals File

FROM: D. Wayne Hedberg, Permit Supervisor *DWH*

RE: Documentation of August 15, 2000 Conference Call, Assessment Review & Status of Closure & Reclamation Activities, North Lily Mining Company, Tintic Project, M/023/007, Juab County, Utah

Date of Call/Meeting: August 15, 2000

Location: Division Offices

Time of Call/Meeting: 9:30 - 11:00 a.m.

Participants: Steven Flechner, Gene Webb & Walt Shubert - North Lily Mining Company; Bob Bayer - JBR Consultants; Pam Grubaugh-Littig, Wayne Hedberg, and Doug Jensen - DOGM; Dennis Frederick and Beth Wondimu - DWQ

*Purpose of Call/Meeting:* The purpose of this conference call was to document the progress that has been made to date at the Tintic Project site in terms of closure and final reclamation of the heap and de-watering of the ponds.

On August 15, 2000, a conference call was held between the representatives identified above to discuss the status of ongoing closure and reclamation activities at the Tintic Project site. The principle focus of the discussion involved a line item review of Exhibit B, Reclamation & Closure Plan Schedule and whether we were staying on schedule with same. A summary of the discussion items is presented below:

- Walt and Doug discussed recent series of samples that were taken from eight small pits dug into the heap for purpose of conducting Meteoric Water Mobility Tests. Two composite samples to be delivered to JBR for laboratory analysis. Determination made that a state certified lab did not need to be used for this test. JBR will select one that has some experience with conducting this type of test. Results may help agencies determine whether it is reasonable to allow grading of some heap material off of the pad liner.
- Section 2.2 - *Liner repair of solution channels.*  
Walt said he expected any necessary repairs to be completed by this Friday (August 18th).
- Section 2.3 - *Reinstall ADS underdrain pipe.*

Agencies okayed use of filter fabric/felt liner to be placed in bottom of solution channels before gravel and underdrain pipe are reinstalled. Once in place, some heap material will be pulled down over the gravel to the outer edge of solution channel until results of Meteoric Water Mobility Tests are complete.

- *Section 2.4 - Site Cleanup*  
It was agreed that this section is intended to apply to a general overall site housekeeping matter and not to actual clean up and disposal of all structures, facilities, etc. Walt and Bob stated that many extraneous materials have now been consolidated and centralized to a certain extent. A discussion ensued regarding status of the barren pond residue. Request was made to sample and analyze same. Beth said she could make a sample that she took earlier this week during an onsite inspection available. JBR will have appropriate analysis (TCLP?) performed by a certified lab.
- *Section 2.5 - Flow meter/flume installation*  
All acknowledged that the flume had been installed a week or two ago now. Walt said he had just this morning received a conversion chart (from JBR?) which he unsuccessfully tried to fax to Elwin. Doug mentioned that he noticed that monitoring data from July 8-15 was missing in Elwin's monitoring records. Bob asked for a copy of what (flow measurement?) records DWQ had received for this site. Weekly monitoring reports are apparently only being received by Steve and Gene (DWQ, DOGM and JBR not getting copied). Walt to check with Elwin about same (could be a fax problem?).
- *Section 2.6 - Install new backup pump*  
Acknowledged back up pump onsite but not connected to distribution system. Walt said they need more pressure to run all three evaporation lines concurrently, so he will be connecting same this week.
- *Section 2.10 - Repair pregnant pond liner*  
Beth asked for a copy of the certified vacuum test report which has not been received to date. Bob indicated that he would contact Rainy Day contractor for same, but it may be some time before they receive it. Walt confirmed seeing the test performed by the contractor on the pond liner patches.
- *Section 2.13 - Estimate post-closure drain down rate*  
Revised this date to September 15<sup>th</sup> due to fact that drain down leachate being pumped onto the heap again, which could affect the predicted estimate. Also the delay in completing the conversion of the recorded flume flow depths to G.P.M. measurements is a reason for the need to revise the date.
- *Section 3.1 - Post-closure fluid management system (conceptual design)*  
Revised this date to August 25<sup>th</sup>. Bob said he would try and get something to us in draft form by tomorrow. (Later called and said delayed until Friday, August 18th).



- *Section 4 - Topsoil Characterization*  
Bob expressed the need to estimate topsoil volumes since DOGM did not perform specific measurements during last field examination of soil trenches and onsite stockpiles. We discussed concern over the spotted knapweed infestation of the general area and how that might affect revegetation success of heap. Agreed best to meet again onsite next Tuesday, August 22<sup>nd</sup> at 9:30 a.m. to try and resolve the outstanding topsoil issues.
- *Section 5 - Assess adequacy of natural revegetation former land application area*  
Agreed this issue will also be revisited and resolved during the August 22<sup>nd</sup> onsite inspection.
- *Section 6 - Regrade heap leach pad*  
Discussion over extent of recontouring work performed to date and the amount of work still required. Wayne stated that the existing approved plan may need to be revised to address final contouring requirements. Approved plans to be reviewed prior to the August 22<sup>nd</sup> onsite inspection and additional discussions on this matter revisited at that time.
- *Section 7 - Topsoil application*  
Scheduling of this requirement is dependent upon final decision from DOGM and DWQ (with operator and consultant input) regarding use of existing stockpiled topsoil and supplemental borrow area resources adjacent to the heap leach site. Final decision is anticipated following the August 22<sup>nd</sup> onsite inspection. May require some adjustment in schedule depending upon timing of heap regrading work.
- *Section 8 - Inventory/dispose salvageable, recyclable, and unusable materials*  
Bob Bayer and Walt indicated this is still pretty much on schedule and they see no reason at this time to suggest a change in the proposed deadline as listed in the Schedule. Bob conditioned this statement as dependent upon the final DEQ decision to use (via appropriate permit) the barren pond for construction debris disposal.  
  
Bob asked if we could arrange to have the KUCC analytical results of the caustic soda sampling sent to him so he could arrange a transporter to take this material (along with the unused cyanide) to KUCC for proper disposal. Doug agreed to contact KUCC for a copy of the analytical results and forward on to JBR. Doug also stated that KUCC had agreed to take the barrel of muratic acid as well. (Doug faxed this report to JBR later that same day).
- We discussed the possibility of performing additional water quality sampling during the August 22<sup>nd</sup> onsite inspection. Bob Bayer said he would bring sample bottles along to sample the drain down solutions coming off the heap (as per water quality permit requirements). Doug suggested and DWQ staff agreed that perhaps the list of parameters analyzed could be evaluated and pared down somewhat to cut costs. Bob asked if he could obtain copies of the last analytical sampling reports from DWQ. Beth indicated she would arrange to have this information made available for him. Draft schedule of reclamation and closure objectives and made appropriate changes to the time frames where necessary.

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We ended the conference call and DOGM agreed to type up the proposed changes to Schedule B and forward same to all parties as soon as possible. Wayne stated he was waiting to hear back from our counsel regarding adequacy of the draft Reclamation Contract agreement and that First Security Bank may still need to provide us with a supplemental letter to finalize the reclamation surety arrangements for this site.

Wayne again called North Lily representatives on August 16<sup>th</sup> and proposed (after post meeting discussions with DWQ and DOGM personnel) that we conduct our joint conference calls with all necessary parties every two weeks, versus once a month as presently scheduled. Steve and Gene concurred and asked that we work up a revised time schedule and send it to them for review. Wayne agreed to do so as soon as possible. He also advised Steve and Gene that he would prepare and send a draft letter to First Security Bank containing the language that DOGM needed to address the recently revised reclamation surety (CD) being held by the bank for this project.

jb

Attachment: Revised Reclamation & Closure Plan schedule

cc: Steve Flechner, NLMC  
Bob Bayer, JBR  
Beth Wondimu, DWQ  
Pam Grubaugh-Littig, DOGM  
Doug Jensen, DOGM  
Tom Munson, DOGM

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Exhibit A - Stipulation and Consent Order

North Lily Mining Company - M/023/007

Please Note: Revisions to schedule are ***bolded and italicized***. New assessment dates added.

<b>Reclamation and Closure Plan Schedule</b> NORTH LILY MINING COMPANY Silver City, Utah Heap Leach Facility  <i>(Revised 8/18/00)</i>			
	Component	Start Date	Anticipated Completion Date
1.	Restore Pad Perimeter Solution Collection System	May 8	May 9 (completed)
<b>Assessment Review &amp; Schedule Readjustment</b>		<b>May 16</b>	<b>Completed</b>
2.	Design, Build & Start-up Enhanced Evaporation Systems	April 12	Aug 21
	2.1 System Design Schematic	April 12	Completed - 4/28
	2.2 Solution Channel Liner Repairs	July 31	<b><i>Aug 18</i></b>
	2.3 Reinstall ADS pipe underdrain in pad solution channel	Aug 15	August 29
	2.4 Site Clean-up	May 14	August 11
	2.5 Flow meter and weir or flume	May 12	July 28
	2.6 Install new pump	June 15	Completed (back-up only)
	2.7 Install and Start-up Pad Margin Evaporation System	May 12	Abandoned
	2.8 Relocate Evap. away from margin	May 22	Completed
	2.9 Install Overflow Pond Evap. if needed*	July 10	July 21
	2.10 Repair Pregnant Pond Liner	July 5*	July 21*
	2.11 Reestablish Pregnant Pond Leak Detection System	July 21*	July 28*
	2.12 Construct, Install In-pond Preg-pond Evaporation System	July 17*	July 28
	2.13 Estimate Post-Closure Draindown Rate	August 14	<b><i>September 15</i></b>
<b>Assessment Review &amp; Schedule Readjustment</b>		<b>June 13</b>	<b>Completed</b>
3.	Design Post-closure Fluid Management System		
	3.1 Conceptual Design	April 15	<b><i>August 25</i></b>
	3.2 Final Design	August 10	September 15

4.	Characterize, Identify, and Quantify Stockpile Topsoil & Topsoil Substitute, Finalize Seed Mix	July 17	September 6
4.1	Nutrient characterization of stockpiled topsoil and estimate stockpile volume	July 17	August 31
4.2	Determine topsoil thickness requirements	July 17	September 6
4.3	Identify source of topsoil substitute and perform nutrient characterization	July 17	September 6
4.4	Finalize seed mix	July 17	September 6
<b>Assessment Review &amp; Schedule Readjustment</b>		<b>July 13</b>	<b>Completed</b>
5.	Assess Adequacy of Natural Revegetation in Former Land Application Area		<b>OGM staff to schedule/perform</b>
<b>Assessment Review &amp; Schedule Readjustment Date</b>		<b>August 15</b>	<b>Completed</b>
<b>Assessment Review &amp; Schedule Readjustment Date</b>		<b>August 29</b>	
6.	Regrade Heap Leach Pad	Sept. 11	Sept. 15
<b>Assessment Review &amp; Schedule Readjustment Date</b>		<b>Sept. 12</b>	
7.	Apply Topsoil	Sept. 15	October 15
<b>Assessment Review &amp; Schedule Readjustment Date</b>		<b>Sept. 28</b>	
<b>Assessment Review &amp; Schedule Readjustment Date</b>		<b>Oct. 12</b>	
8.	Inventory and Dispose of Salvageable, Recyclable, and Unusable Materials		
8.1	Inventory	July 10	Aug. 30
8.2	Disposal	July 30	November 30
9.	Apply Seed and Soil Amendments	October 15	November 15
<b>Assessment Review &amp; Schedule Readjustment Date</b>		<b>Oct. 26</b>	
<b>Assessment Review &amp; Schedule Readjustment Date</b>		<b>Nov. 15</b>	
10.	Decommission and Reclaim Barren and Overflow Ponds (if not necessary for post-closure fluid management system)	September 1	December 31
<b>Assessment Review &amp; Schedule Readjustment Date</b>		<b>Nov. 29</b>	
11.	Construct Post-Closure Fluid Management System	November 1	December 31
<b>On-site Review</b>		<b>December 5</b>	(on/before)
12.	All reclamation/closure work to be completed except for facilities/features required for post closure monitoring (or post closure fluid management system).		December 31

\* Dependent upon results of previous components and/or agency approvals

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